

INFORMATION DISCLOSURE CITATION

Attorney Docket No. 056100-5005-01

Application No. 10/820,202

(Use several sheets if necessary)
PTO Form 1449Applicants: Pierre Broun *et al.*

Page 1 of 3

Application Filing Date: April 8, 2004

Group Art Unit: 1638

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
EM	5,850,026	12/15/1998	DeBonte <i>et al.</i>	800	281	07/03/1996
EM	6,372,965	04/16/2002	Lightner <i>et al.</i>	800	298	08/14/1998

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
EM	WO 94/11516 A1	05/26/1994	WIPO				
	WO 94/18337 A	01/18/1994	WIPO				
	WO 96/10075 A	04/04/1996	WIPO				
	WO 97/21340 A	06/19/1997	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EM	Altschul <i>et al.</i> , "Basic local alignment search tool," J. Mol. Biol., 215:403-410 (1990).
	Arondel <i>et al.</i> , "Map-based cloning of a gene controlling omega-3 fatty acid desaturation in Arabidopsis," Science, 258:1353-1355 (1992).
	Atsmon <i>et al.</i> , "Castor," in <i>Oil Crops of the World</i> , Robbelen, G., Downey, K.R., and Ashri, A., eds. McGraw-Hill, New York pp. 438-447 (1989).
	Bafor <i>et al.</i> , "Ricinoleic acid biosynthesis and triacylglycerol assembly in microsomal preparations from developing castor-bean," Biochem., 280:507-514 (1991).
	Batley <i>et al.</i> , "A comparison of the metabolic fate of fatty acids of different chain lengths in developing oilseeds," Plant Physiol., 90:835-840 (1989).
	Bechtold <i>et al.</i> , "In Planta Agrobacterium mediated gene transfer by infiltration of adult Arabidopsis thaliana plants," C.R. Acad. Sci. Paris, 316:1194-1199 (1993).
	Beltz <i>et al.</i> , "Isolation of multigene families and determination of homologies by filter hybridization methods," Methods in Enzymology, 100:266-285 (1983).
	Bray <i>et al.</i> , "Expression of the .beta.-conglycinin in seeds of transgenic plants," Planta, 172:364-370 (1987).
	Browse <i>et al.</i> , "Glycerolipid synthesis: biochemistry and regulation," Ann. Rev. Plant Physiol. Plant Mol. Biol., 42:467-506 (1991).
	Canvin, "Formation of oil in the seed of <i>Ricinus communis</i> L.," Can. J. Biochem. Physiol., 41:1879-1885 (1963).
	Ditta <i>et al.</i> , "Broad host range DNA cloning system for gram-negative bacteria: Construction of a gene bank of <i>Phizobium meliloti</i> ," Proc. Natl. Acad. Sci. USA, 77:7347-7351 (1980).
	Fox <i>et al.</i> , "Stearoyl-acyl carrier protein Δ^9 desaturase from <i>Ricinus communis</i> is a diiron-oxo protein," Proc. Natl. Acad. Sci., 90:2486-2490 (1993).
	Galliard <i>et al.</i> , "Fat metabolism in higher plants XXX. Enzymatic synthesis of ricinoleic acid by a microsomal preparation from developing <i>Ricinus communis</i> seeds," J. Biol. Chem., 241:5806-5812 (1966).

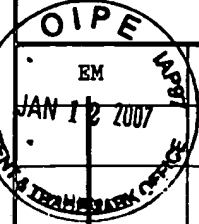
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		Application Filing Date: April 8, 2004	Group Art Unit: 1638
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Gould <i>et al.</i> , "Use of the DNA polymerase chain reaction for homology probing," Proc. Natl. Acad. Sci. USA, 86:1934-1938 (1989).	
		Greenwood <i>et al.</i> , "Seed development in <i>Ricinus communis</i> (castor bean) I. Descriptive morphology," Can. J. Bot., 60:1751-1760 (1982).	
		Gunstone <i>et al.</i> , <i>The Lipid Handbook</i> , Chapman and Hall, London, Chapters 1.9, pp. 19-20 and 3.3.5, pp. 57-58 (1986).	
		Howling <i>et al.</i> , "The specificity of fatty acid desaturases and hydroxylases: the dehydrogenation and hydroxylation of monoenoic acids," Biochim. Biophys. Acta, 260:10-19 (1972).	
		Huynh <i>et al.</i> , "Constructing and screening cDNA libraries in .lambda.gt10 and .lambda.gt11, in DNA Cloning, vol. 1: A Practical Approach," (ed) D.M. Glover, IRL Press, Washington, D.C., pp. 49-77 (1985).	
		Iba <i>et al.</i> , "A gene encoding a chloroplast omega-3 fatty acid desaturase complements alterations in fatty acid desaturation and chloroplast copy number of the fad7 mutant of <i>Arabidopsis thaliana</i> ," J. Biol. Chem., 268:24099-24105 (1993).	
		James <i>et al.</i> , "The biosynthesis of ricinoleic acid," Biochem. J., 95:448-452 (1965).	
		Kearns <i>et al.</i> , "The role of cytochrome b5 in delta desaturation of oleic acid by microsomes of safflower (<i>Carthamus tinctorius</i> L.)," Arch. Biochem. Biophys., 284:431-436 (1991).	
		Knuzton <i>et al.</i> , "Modification of Brassica seed oil by antisense expression of a stearyl-acyl carrier protein desaturase gene," Proc. Natl. Acad. Sci. USA, 89:2624-2628 (1992).	
		Kok <i>et al.</i> , "The <i>Pseudomonas oleovorans</i> alkane hydroxylase gene: sequence and expression," J. Biol. Chem., 264:5435-5441 (1989).	
		Konez <i>et al.</i> , "The promoter of T _L -DNA gene 5 controls the tissue-specific expression of chimetic tenes carried by a novel type of <i>Agrobacterium</i> binary vector," Mol. Gen. Genet., 204:383-396 (1986).	
		Kren <i>et al.</i> , "Occurrence of ricinoleic acid in submerged cultures of various <i>Claviceps sp.</i> ," Experientia, 41:1476-1477 (1985).	
		Miquel <i>et al.</i> , "Arabidopsis Mutants Deficient in Polyunsaturated Fatty Acid Synthesis," J. Biol. Chem., 267:1502-1509 (1992).	
		Moreau <i>et al.</i> , "Recent studies of the enzymic synthesis of ricinoleic acid by developing castor beans," Plant Physiol., 67:672-676 (1981).	
		Morris <i>et al.</i> , Biochem. J., "The biosynthesis of ricinoleic acid by <i>Claviceps purpurea</i> ," 100:29c-30c (1966).	
		Morris, "The Mechanism of ricinoleic acid biosynthesis in <i>Ricinus communis</i> seeds," Biochem. Biophys. Res. Commun., 29:311-315 (1967).	
		Morris, "Mechanisms and stereochemistry in fatty acid metabolism," Biochem. J., 118:681-693 (1970).	
		Newman <i>et al.</i> , "DST sequences, highly conserved among plant SAUR genes, target reporter transcripts for rapid decay in tobacco," Plant Cell, 5:701-714 (1993).	
		Okuley <i>et al.</i> , "Arabidopsis FAD2 Gene Encodes the Enzyme that is Essential for Polyunsaturated Lipid Synthesis," Plant Cell 6:147-158 (1994).	
		Ooms <i>et al.</i> , "Octopine Ti-plasmid deletion mutants of <i>Agrobacterium tumefaciens</i> with emphasis on the right side of the T-region," Plasmid, 7:15-29 (1982).	
		Panaccione <i>et al.</i> , "Characterization of two divergent B-tubulin genes from <i>Colletotrichum graminicola</i> ," Gene, 86:163-170 (1990).	
		Prasad <i>et al.</i> , "Phospholipids of palash (<i>Butea monosperma</i>), papaya (<i>Carica papaya</i>), jangli badam (<i>Sterculia foetida</i>), coriander (<i>Coriandrum sativum</i>), and carrot (<i>Daucus carota</i>) seeds," J. Am. Oil Chem. Soc., 64:1424-1427 (1987).	
Examiner /Elizabeth McElwain/		Date Considered 01/30/2007	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
<div style="text-align: center;">  </div>	<p>Puissant <i>et al.</i>, "An improvement of the single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction," <i>BioTechniques</i>, 8:148-149 (1990).</p> <p>Sambrook <i>et al.</i>, <i>Molecular Cloning: a Laboratory Manual</i>, 2n ed., Cold Spring Harbor Laboratory Press (1989).</p> <p>Schmidt <i>et al.</i>, "New in vitro and in vivo evidence for lipid-linked desaturation in plants," in <i>Biochemistry and Molecular Biology of Membrane and Storage Lipids of Plants</i>, eds. N. Murata and C.R. Somerville, American Society of Plant Physiologists, pp. 40-49 (1993).</p> <p>Smith <i>et al.</i>, "Evidence for cytochrome b₅ as an electron donor in ricinoleic acid biosynthesis in microsomal preparations from developing castor bean (<i>Ricinus communis</i> L.)," <i>Biochem. J.</i>, 287:141-144 (1992).</p> <p>Smith, "Unusual seed oils and their fatty acids," in <i>Fatty Acids</i>, Pryde E.H., Ed., American Oil Chemists' Society, Champaign, 2nd ed., pp. 29-47 (1985).</p> <p>Suzuki <i>et al.</i>, "Primary structure of xylene monooxygenase: similarities to and differences from the alkane hydroxylation system," <i>J. Bacteriol.</i>, 173:1690-1695 (1991).</p> <p>Thiede <i>et al.</i>, "Construction and Sequence of cDNA for Rat Liver Stearyl Coenzyme A Desaturase," <i>J. Biol. Chem.</i>, 261:13230-13235 (1986).</p> <p>van de Loo <i>et al.</i>, "An Oleate 12-hydroxylase from <i>Ricinus comunis</i> L. is a fatty acyl saturase homolog," <i>Proc. Natl. Acad. Sci. USA</i>, July 18, 1995; 92(15):6743-6747.</p> <p>van de Loo <i>et al.</i>, <i>Lipid Metabolism in Plants</i>, T.S. Moore Jr., Ed., CRC Press, Boca Raton, pp. 91-126 (1993).</p> <p>van de Loo <i>et al.</i>, "A plastid omega-3 desaturase from castor (<i>Ricinus communis</i> L.)," <i>Plant Physiol.</i>, 105:443-444 (1994).</p> <p>von Heijne, "Signal Sequences," <i>J. Mol. Biol.</i>, 184:99-105 (1985).</p> <p>Yadav <i>et al.</i>, "Cloning of higher plant 03 fatty acid desaturases," <i>Plant Physiol.</i>, 103:467-476 (1993).</p> <p>Topfer <i>et al.</i>, "Modification of plant lipid synthesis," <i>Science</i> 268: 681-686 (1995).</p> <p>Carlson <i>et al.</i>, "Analysis of Oil and Meat from <i>Lesquerella fendleri</i> Seed," <i>Am. Oil. Chem. Soc.</i> 67:495-498 (1990).</p> <p>Broun <i>et al.</i>, "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> 282:1315-1317 (1998).</p> <p>Broun <i>et al.</i>, "A bifunctional oleate 12-hydroxylase: desaturase from <i>Lesquerella fendleri</i>," <i>Plant J.</i> 13(2):201-210 (1998).</p> <p>Broun <i>et al.</i>, "Accumulation of ricinoleic, lesquerolic, and densipolic acids in seeds of transgenic <i>Arabidopsis</i> plants that express a fatty acyl hydroxylase cDNA from castor bean," <i>Plant Physiol.</i> 113: 933-942 (1997).</p> <p>Cahoon <i>et al.</i>, "Redesign of soluble fatty acid desaturase from plants for altered substrate specificity and double bond position," <i>Proc. Natl. Acad. Sci. USA</i> 94: 4872-4877 1997).</p> <p>De Luca, "Molecular characterization of secondary metabolis pathways," <i>Biotech News and Information</i> 5:225N-229N (1997).</p> <p>Shanklin <i>et al.</i>, "Eight histidine residues are catalytically essential in a membrane-associated iron enzyme, stearyl-CoA desaturase, and are conserved in alkane hydroxylase and xylene monooxygenase," 1994, <i>Biochem.</i> 33: 12787-12794.</p> <p>Jones <i>et al.</i>, "Effective vectors for transformation, expression of heterologous genes, and assaying transposon excision in transgenic plants," <i>Transgenic Res.</i>, 1:285-297 (1992).</p> <p>Matzke <i>et al.</i>, "How and why do plants inactivate homologous (Trans) genes?" <i>Plant Physiol.</i> 107: 679-685 (1995).</p>

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